

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number
WO 2005/071302 A1

(51) International Patent Classification⁷: **F16L 21/02**,
17/00

(21) International Application Number:
PCT/KR2005/000206

(22) International Filing Date: 25 January 2005 (25.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
20-2004-0001737 26 January 2004 (26.01.2004) KR

(71) Applicant and

(72) Inventor: **KIM, Suk-Yoon** [KR/KR]; 1-802 aju apartment
374, galsan2 bupyeong, Incheon 403-805 (KR).

(74) Agent: **KIM, Kuk-Jin**; 3th Fl. Hansong Bldg., 1178, Gu-
wol 1-dong Namdong-gu, Incheon 405-835 (KR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

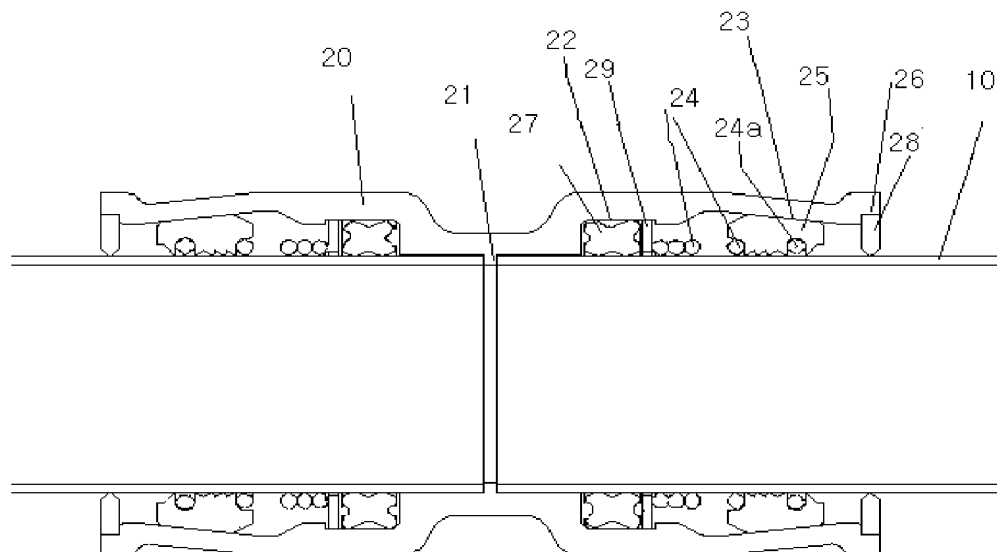
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: JOINT FOR PLUMBING



(57) Abstract: The present invention relates to a joint for plumbing using a wedge action, which can easily and rapidly assemble and disassemble a pipe. The joint can maximize tensile stopping power of the product by mounting a stopper in such a manner as to occupy the maximum area, increase sealing effect and convenience in insertion of the pipe by adopting a packing the most suitable for the joint, and prevent introduction of dust from the outside. For this, a spring is designed in such a way that the final round of the spring forms a round, and thereby the present invention maximizes a stopper receiving capacity. In addition, the present invention adopts an X-ring as a packing, and a dust seal is mounted in an inlet in which the pipe is inserted.

WO 2005/071302 A1